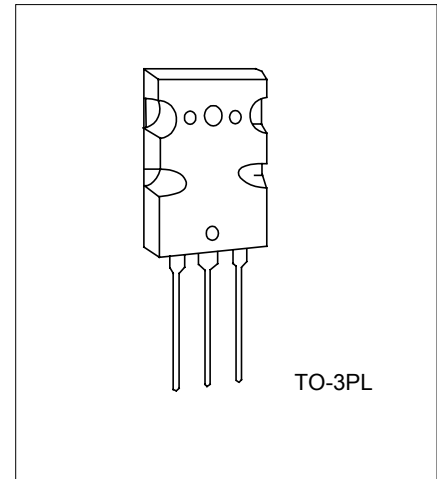


## POWER AMPLIFIER APPLICATIONS

## FEATURES

- \* Complementary to UTC 2SC5200
- \* Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage.



1:BASE 2:COLLECTOR 3:EMITTER

\*Pb-free plating product number:2SA1943L

## ABSOLUTE MAXIMUM RATINGS

(T<sub>C</sub> = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	-230	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-230	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V
Collector Current	I <sub>C</sub>	-15	A
Base Current	I <sub>B</sub>	-1.5	A
Collector Power Dissipation (T <sub>C</sub> =25°C)	P <sub>C</sub>	150	W
Junction Temperature	T <sub>J</sub>	0 ~ +125	°C
Storage Temperature Range	T <sub>STG</sub>	-65 ~ +125	°C

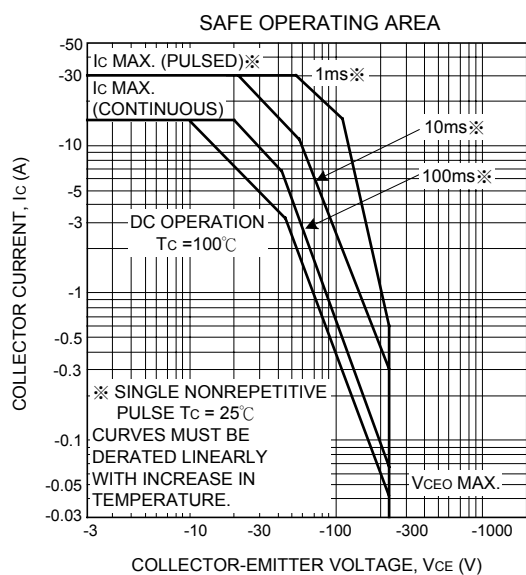
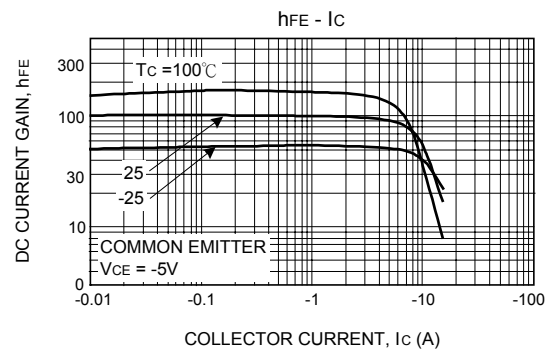
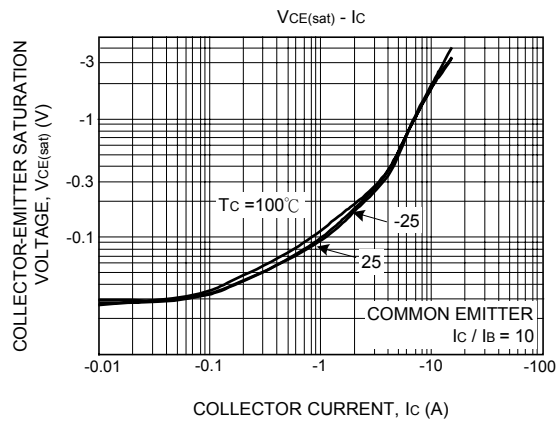
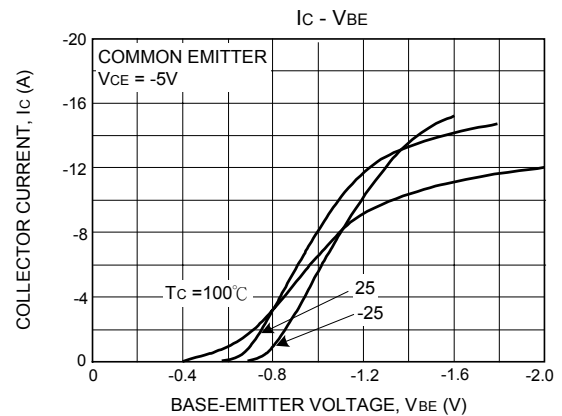
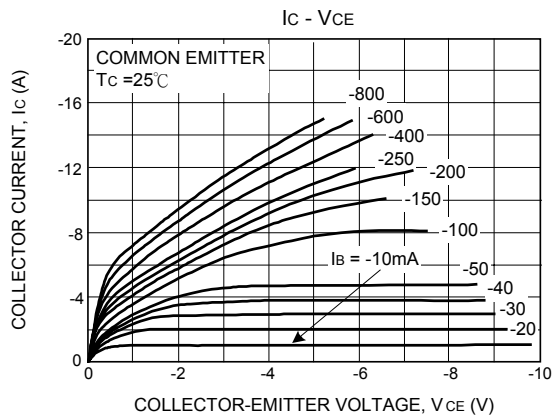
## ELECTRICAL CHARACTERISTICS

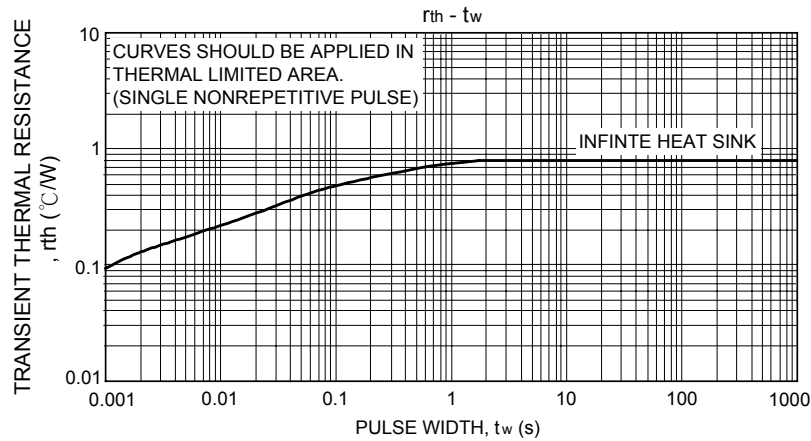
(T<sub>a</sub>=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current	I <sub>CBO</sub>	V <sub>CB</sub> = -230V, I <sub>E</sub> =0			-5.0	μA
Emitter Cut-off Current	I <sub>EBO</sub>	V <sub>EB</sub> = -5V, I <sub>C</sub> =0			-5.0	μA
Collector-Emitter Breakdown Voltage	V <sub>(BR) CEO</sub>	I <sub>C</sub> = -50mA, I <sub>B</sub> =0	-230			V
DC Current Gain	h <sub>FE</sub> (1) (Note)	V <sub>CE</sub> = -5V, I <sub>C</sub> = -1A	55		160	
	h <sub>FE</sub> (2)	V <sub>CE</sub> = -5V, I <sub>C</sub> = -7A	35	60		
Collector-Emitter Saturation Voltage	V <sub>CE (sat)</sub>	I <sub>C</sub> = -8A, I <sub>B</sub> = -0.8A		-1.5	-3.0	V
Base -Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -7A		-1.0	-1.5	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -1A		30		MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> =0, f=1MHz		360		pF

Note: h<sub>FE</sub> (1) Classification, R : 55 ~ 110, O : 80 ~ 160

## TYPICAL CHARACTERISTICS





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